- 1. An apparatus for monitoring the medical condition of a patient, said apparatus comprising:
- a monitoring device which during use monitors one or more clinical features of the patient;
- a predictive instrument arranged to receive output from the monitoring device and programmed to compute a probability of a medical outcome or diagnosis based on the monitored one or more clinical features, said predictive instrument further programmed to compute said probability by executing an algorithm which models said medical outcome or diagnosis; and

an interface through which a user enters information characterizing the patient, wherein said predictive instrument is further programmed to request said algorithm from a remote location.

- 2. The apparatus of claim 1 wherein the monitoring device is an electrocardiograph.
- 3. The apparatus of claim 2 wherein the algorithm enables the predictive instrument to compute said probability using a regression equation.
  - 4. The apparatus of claim 3 wherein the regression equation is of the form:

$$P = 100 \left[ 1 - \frac{1}{1 + e^{b_0 + \sum b_i x_i}} \right]$$

- 3 wherein P is the probability of medical outcome or diagnosis,  $b_0$  is a constant, the  $x_i$ 's are
- 4 explanatory variables, and the b<sub>i</sub> 's are coefficients of corresponding explanatory
- 5 variables.
  - 5. The apparatus of claim 4 wherein P is a probability of acute cardiac ischemia.
- 6. An apparatus for enabling a remotely located predictive instrument to compute a probability of a medical outcome or diagnosis based on monitored one or more clinical
- 3 features of a patient, said apparatus comprising:

4	a data storage area which stores a plurality of different algorithms, each of which
5	models a corresponding medical outcome or diagnosis; and
6	a server which is programmed to respond to a request from a remote device by
7	retrieving a selected one of said plurality of different algorithms from said data storage
8	and forwarding the selected algorithm to the remote device.
1	7. The apparatus of claim 6 wherein the request contains a patient profile and the
2	server identifies which of the plurality of different algorithms is the selected algorithm
3	based on the received patient profile.
1	8. A method for evaluating a medical condition of a patient, said method
2	comprising:
3	receiving input characterizing the patient;
4	electronically retrieving from a remote location, an algorithm for computing a
5	probability of a medical outcome or diagnosis;
6	monitoring one or more clinical features of a patient; and
7	using the retrieved algorithm to compute the probability of the medical outcome
8	or diagnosis for the patient and based on the monitored features.
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